

DIAWOOL®

WATER RETENTION SYSTEMS

Vegetation



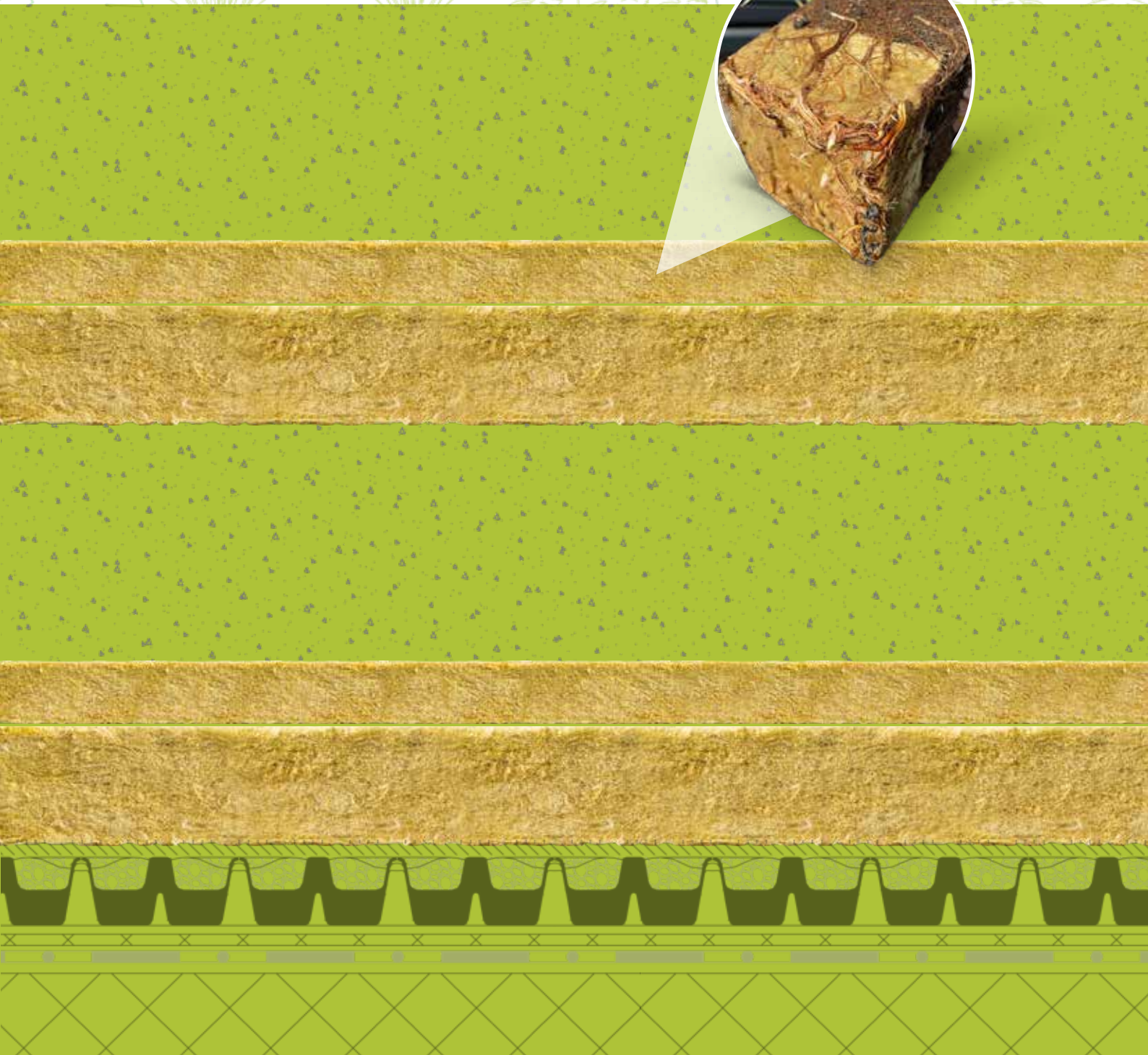
Growing medium



DiaWool®

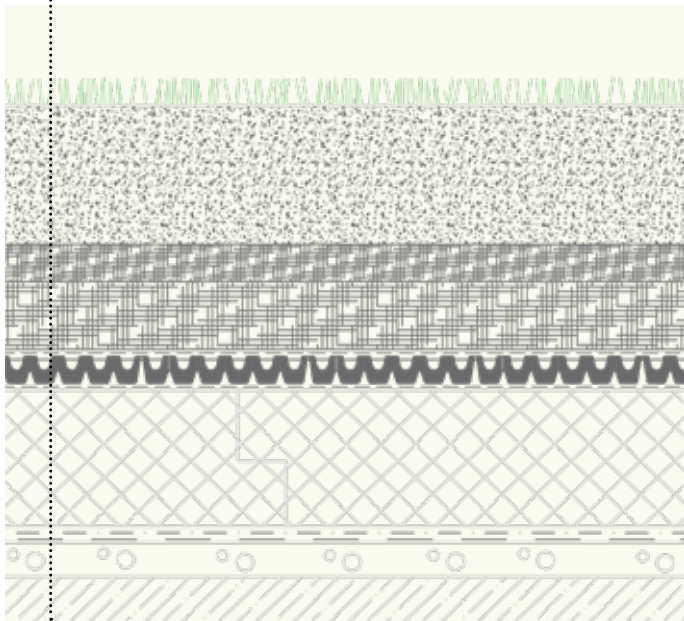


NATURAL HARMONY



SEMI-INTENSIVE VEGETATION

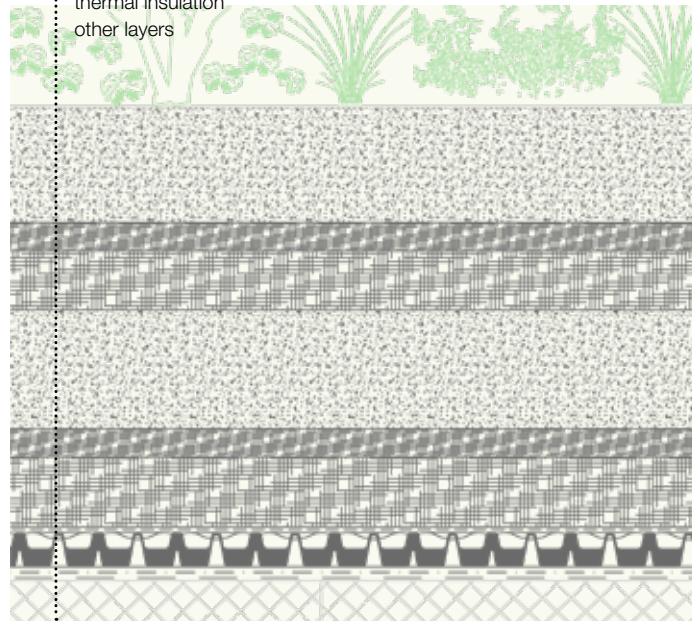
- semi-intensive vegetation
- DIADEM® SIM intensive growing media
- DiaWool® I50 mineral wool
- DiaWool® I100 mineral wool
- DIADEM® VLF-200 filter layer
- DIADEM® DiaDrain-40H drainage board
- DIADEM® VLF-110 separation layer
- xps thermal insulation
- DIADEM® VLU-300 mechanical protection layer
- root resistant waterproofing membrane
- other layers



Semi-intensive layer build-up thickness: 40 cm
Water retention capacity of semi-intensive layer build-up: 135 l/m²
System dry weight: 206 kg/m² (incl. weight of lawn mat)
System weight saturated with water: 408 kg/m² (incl. weight of lawn mat)

INTENSIVE VEGETATION

- intensive vegetation
- DIADEM® SIM intensive growing media
- DiaWool® E50 mineral wool
- DiaWool® I100 mineral wool
- DIADEM® SIM intensive growing media
- DiaWool® E50 mineral wool
- DiaWool® I100 mineral wool
- DIADEM® VLF-200 filter layer
- DIADEM® DiaDrain-60H drainage board filled
- DIADEM® VLU-500 mechanical protection layer
- root resistant waterproofing membrane
- thermal insulation
- other layers



Intensive layer build-up thickness: 80 cm
Water retention capacity of intensive layer build-up: 250 l/m²
System dry weight: 355 kg/m² (not incl. weight of lawn mat)
System weight saturated with water: 718 kg/m² (not incl. weight of lawn mat)



In solving the problems caused by global warming, the materials of the DiaWool® product family are of increasing strategic importance:

- Water management on roofs
- Water retention
- Water runoff deceleration
- Reduction of urban heat islands

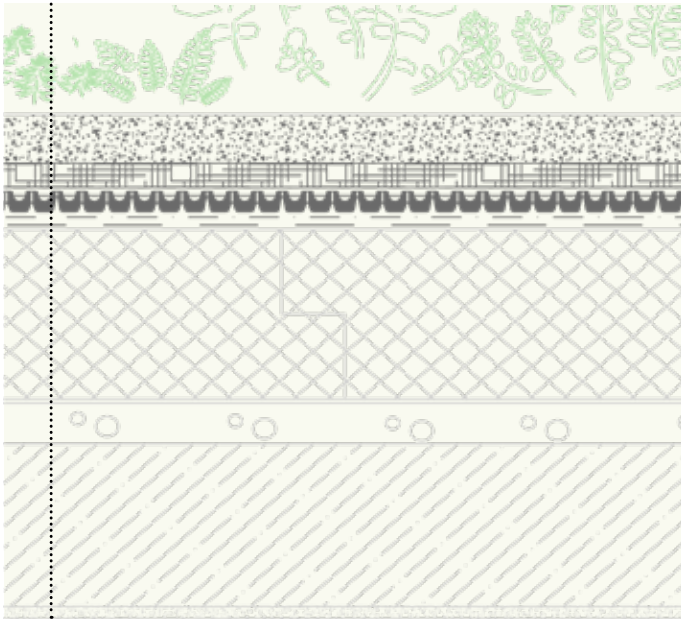
DiaWool® with its advanced research, our main objective is to continuously support the layer build-ups of Green/Blue roof systems globally, as well as persistently developing our products further.



DiaWool®'s growing international reputation and expansion, is based on a 25-year experimental research combined with a green roof, utilising rock wool and a growing medium (substrate). The material should not be confused with rock wool generally used in the construction industry for thermal insulation, since the chemical purity of DiaWool® is so good that it is also used for vegetation cultivation as a growing medium.

EXTENSIVE VEGETATION ON FLAT ROOFS

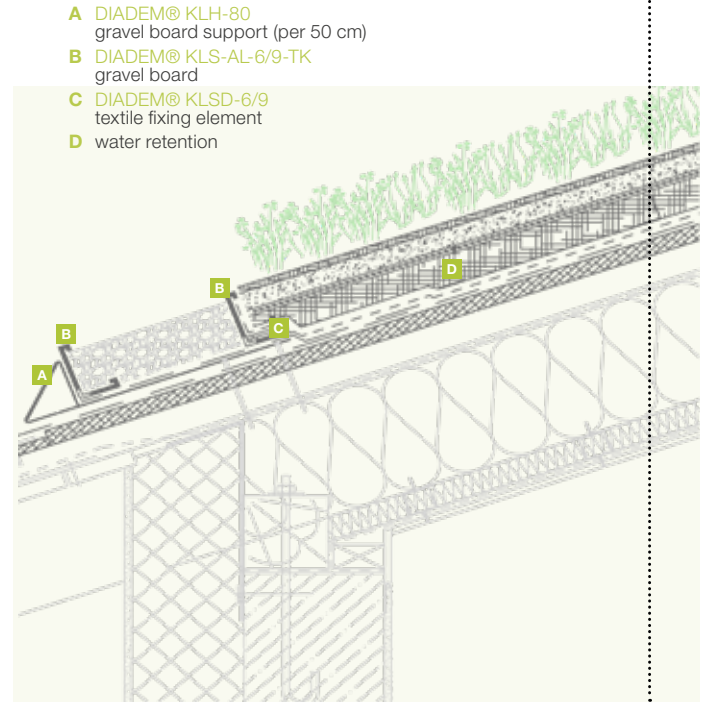
- extensive vegetation
- DIADEM® SEM extensive growing media
- DiaWool® E30 mineral wool
- DIADEM® VLF-150 filter layer (optional)
- DIADEM® DiaDrain-25H drainage board
- DIADEM® VLU-300 mechanical protection layer
- root resistant waterproofing membrane
- thermal insulation
- other layers



Extensive layer build-up thickness: 12 cm
Water retention capacity of extensive layer build-up: 55 l/m²
System dry weight: 49 kg/m²
System weight saturated with water: 108 kg/m²

EXTENSIVE VEGETATION ON PITCHED ROOFS

- DIADEM® MAT-25 sedum mat
- DIADEM® SEM extensive vegetation
- DIADEM® geonet
- DiaWool® E50 mineral wool
- DIADEM® VLS-500 technical protection and moisture retention fleece
- root resistant waterproofing membrane
- other layers



- A** DIADEM® KLH-80 gravel board support (per 50 cm)
- B** DIADEM® KLS-AL-6/9-TK gravel board
- C** DIADEM® KLS-D-6/9 textile fixing element
- D** water retention

Extensive layer build-up thickness: 10 cm
Water retention capacity of extensive layer build-up: 20-25 l/m²
System dry weight: 52 kg/m²
System weight saturated with water: 118 kg/m²

APPLICATION

DiaWool® is a lightweight, hydrophilic product made of volcanic rock. It is capable of absorbing and retaining large amounts of water and its unique structural composition guarantees the slow discharge of water from rock wool into the vegetation.

DiaWool® when used in combination with mineral-based growing medium (SIM, SEM), it can act as partial substrate replacement, reducing the overall load bearing capacity on the roof.



Areas of application: Green/Blue roofs, flower planters, green area between railway tracks

- Advantages over conventional layer build-up:**
- Economical transportation and material handling
 - Fast, simple, cost-effective implementation
 - Multiple water retention capacity (accumulation)
 - Advanced noise absorption

Our references



Contact

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A green cover is always the best.